

*being sent to Applicant*

# PATENT ABSTRACTS OF JAPAN

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(21) Application number : 62-190344 (71) Applicant : JAPAN AVIATION ELECTRON  
IND LTD

(22) Date of filing : 31.07.1987 (72) Inventor : SEKIGUCHI HIROSHI

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## (54) BACKLIGHT FOR INSTRUMENT

### (57) Abstract:

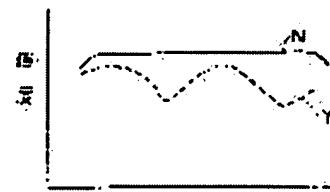
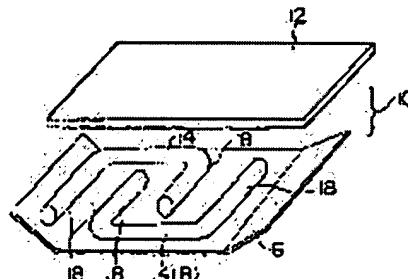
PURPOSE: To excellently keep uniformity even when a fluorescent lamp for illumination has a fault by alternately arranging plural U-shaped fluorescent lamps behind a liquid crystal display so as to be opposed to each other.

CONSTITUTION: Plural U-shaped fluorescent lamps 14 are arranged behind a liquid crystal display 12 assembled in the instrument 10, and a reflector 16 is

provided behind the lamps 14. The lamps 14 are

provided to be opposed to each other so that the arm parts 18 of the lamps 14 may be alternately put in. In an example where two U-shaped fluorescent lamps 14 are combined and arranged, when one lamp B out of the lamps goes out because of some hindrance, a graph N showing the case two lamps are arranged becomes a

graph Y, then a disadvantage that luminance distribution becomes extremely unbalanced as in the conventional manner and a part of the display screen of the instrument disappears completely because one fluorescent lamp is turned off is prevented.



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## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of

[rejection]

[Kind of final disposal of application other than  
the examiner's decision of rejection or  
application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

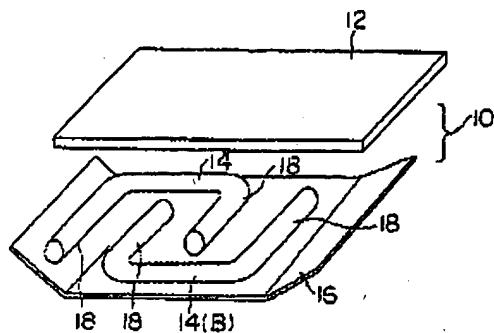
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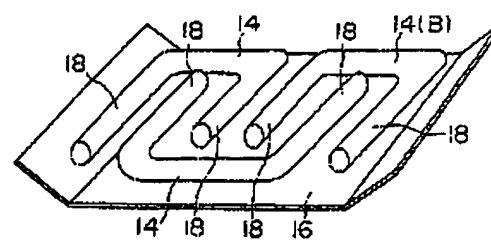
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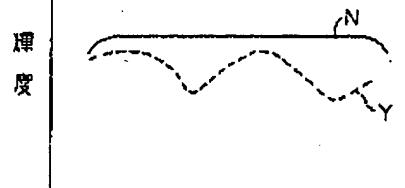
第1図



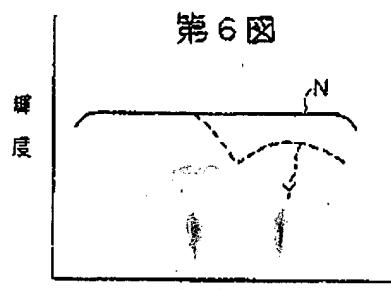
第2図



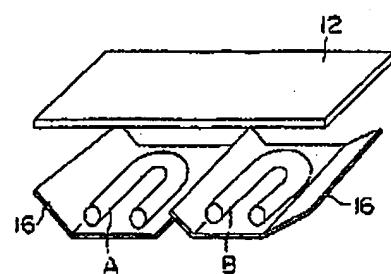
第5図



第6図



第3図



第4図

